



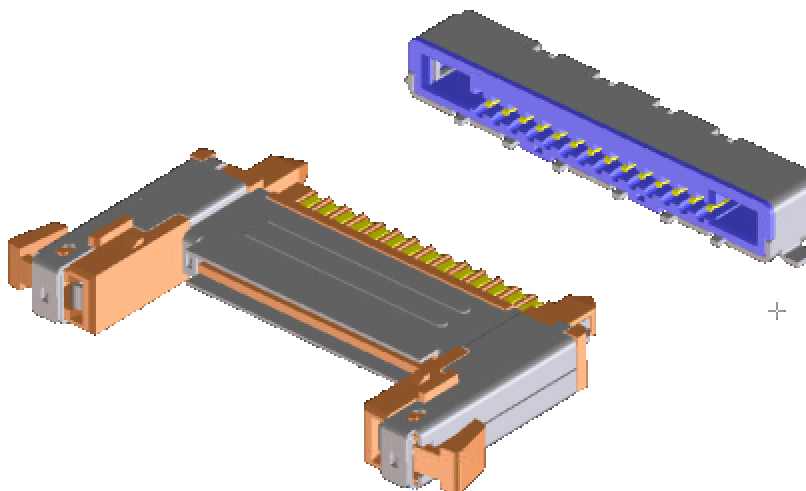
LVDS Transmission Connector

CONNECTOR

**FI-E Series**

MB-0102-2

December 2003



## &lt;&lt;Outline&gt;&gt;

Along with digitalization trends, cases where LVDS (Low Voltage Differential Signaling) is used for internal wiring in consumer products such as TVs are increasing. JAE has developed a connector that combines both electrical considerations for LVDS transmission and mechanical considerations for TV interiors.

**Features**

- Connector optimal for LVDS (Performance equal to FTX connector series).
- Sufficient guide alignment and durability to permit blind mating.
- Mechanical lock available to prevent incomplete or inadequate mating.
- Low profile design with 3.2mm height when mounted.
- Crimp-style and solder-style available for harness-side. Crimp contact common to FI-X series.

**General Specifications**

- |                                                      |                                            |
|------------------------------------------------------|--------------------------------------------|
| ■ No. of contacts : 14 pos., 30 pos.                 | ■ Rated current: AC,DC each 1A per 1pos.   |
| ■ Contact resistance: 40m ohm max.                   | ■ Rated voltage: AC,DC each 200V per 1pos. |
| ■ Withstanding voltage: AC500Vr.m.s<br>per minute    | ■ Insulation resistance: 100M ohm min.     |
| ■ Operating temperature: -40 Deg. C to<br>+80 Deg. C | ■ Pitch: 1mm                               |

|                        |
|------------------------|
| Materials and Finishes |
|------------------------|

## FI-E\*\*S (Board side)

| Components   | Materials and Finishes                                      |
|--------------|-------------------------------------------------------------|
| Contact      | Copper alloy/ Contact portion: Au<br>Terminal portion: SnCu |
| Ground Plate | Copper alloy/ Tin plating                                   |
| Insulator    | Heat resistant plastic/ None                                |
| Shell        | Stainless/ Tin plating                                      |

## FI-E\*\*C\* (Cable side, soldering type)

| Components  | Materials and Finishes                                      |
|-------------|-------------------------------------------------------------|
| Contact     | Copper alloy/ Contact portion: Au<br>Terminal portion: SnCu |
| Base shell  | Copper alloy/ Tin plating                                   |
| Insulator   | Heat resistant plastic/ None                                |
| Lock spring | Stainless/ None                                             |

## FI-E\*\*H\* (Cable side, crimp housing type)

| Components | Materials and Finishes       |
|------------|------------------------------|
| Housing    | Heat resistant plastic/ None |
| Shell      | Copper alloy/ Tin-plating    |

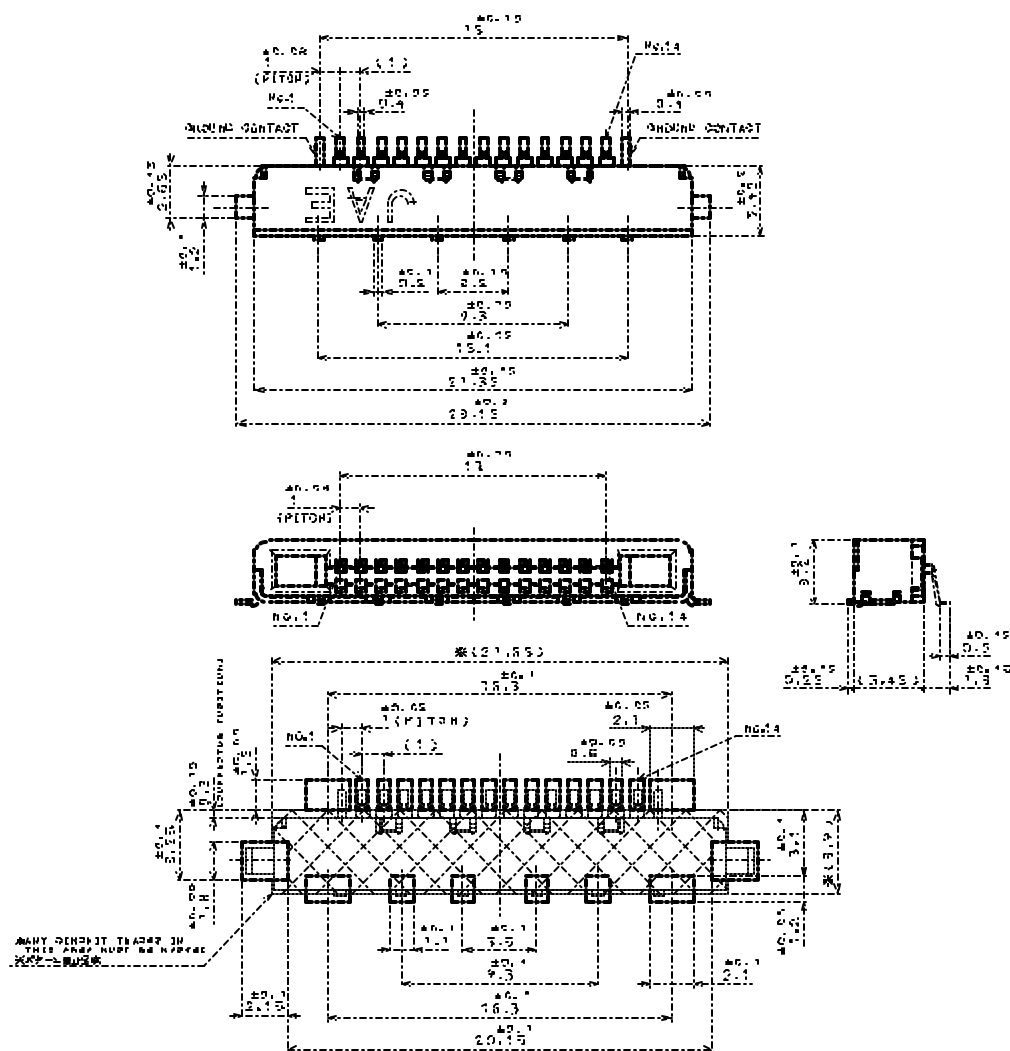
|                      |
|----------------------|
| Ordering Information |
|----------------------|

Series      FI-E      \* \*      S

No. of contacts

Receptacle

|             |          |
|-------------|----------|
| Part Number | FI-E14S  |
| SJ Drawing  | SJ037690 |

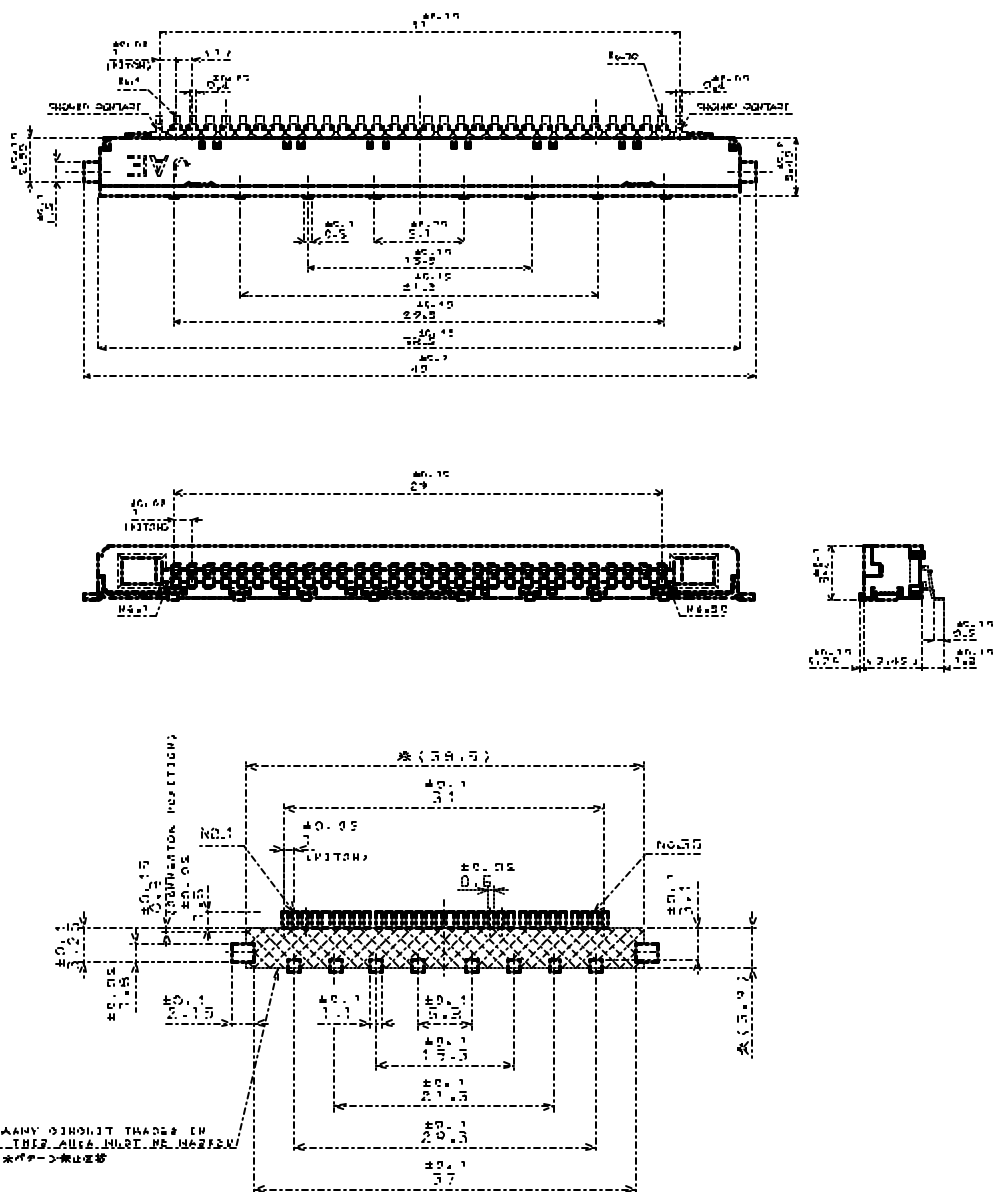


Applicable dimension of board  
(for reference)

## Ordering Information

|                 |      |     |   |
|-----------------|------|-----|---|
| Series          | FI-E | * * | S |
| No. of contacts |      |     |   |
| Receptacle      |      |     |   |

|             |          |
|-------------|----------|
| Part Number | FI-E30S  |
| SJ Drawing  | SJ038770 |



Applicable dimension of board  
(for reference)

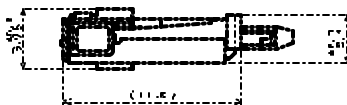
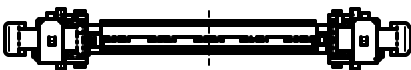
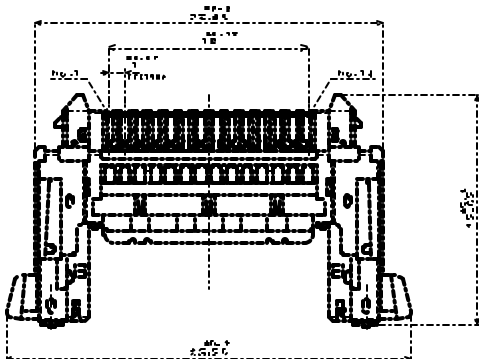
## Ordering Information

|                   |    |   |
|-------------------|----|---|
| FI-E              | ** | C |
| Series            |    |   |
| No. of contacts   |    |   |
| Cable solder type |    |   |

|                                                           |
|-----------------------------------------------------------|
| Modification code(None: Coaxial type<br>2: Discrete type) |
|-----------------------------------------------------------|

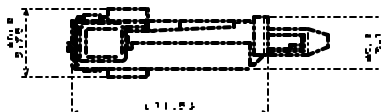
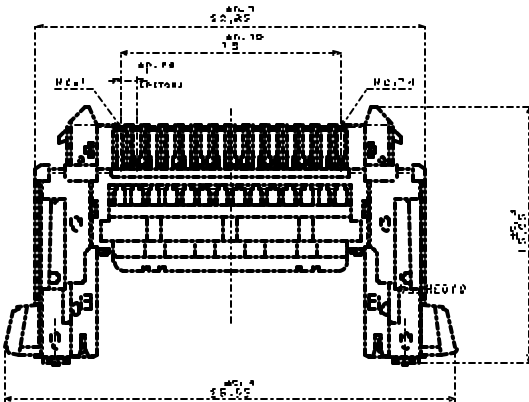
|             |          |
|-------------|----------|
| Part Number | FI-E14C  |
| SJ Drawing  | SJ038723 |

**\* Connector is not sold individually.**



|             |          |
|-------------|----------|
| Part Number | FI-E14C2 |
| SJ Drawing  | SJ038724 |

**\* Connector is not sold individually.**



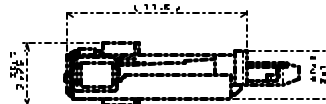
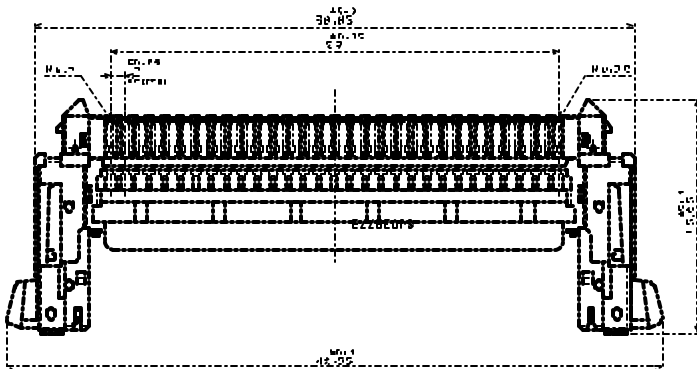
## Ordering Information

|                   |      |    |  |
|-------------------|------|----|--|
| Series            | FI-E | ** |  |
| No. of contacts   |      |    |  |
| Cable solder type |      |    |  |

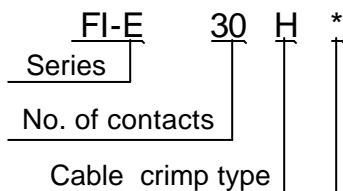
|                                                            |
|------------------------------------------------------------|
| Modification code (None: Coaxial type<br>2: Discrete type) |
|------------------------------------------------------------|

|             |          |
|-------------|----------|
| Part Number | FI-E30C2 |
| SJ Drawing  | SJ038773 |

**\* Connector is not sold individually.**

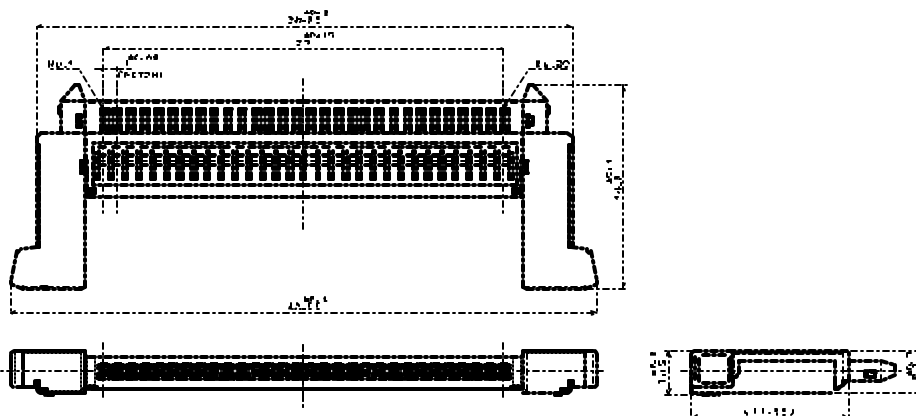


## Ordering Information

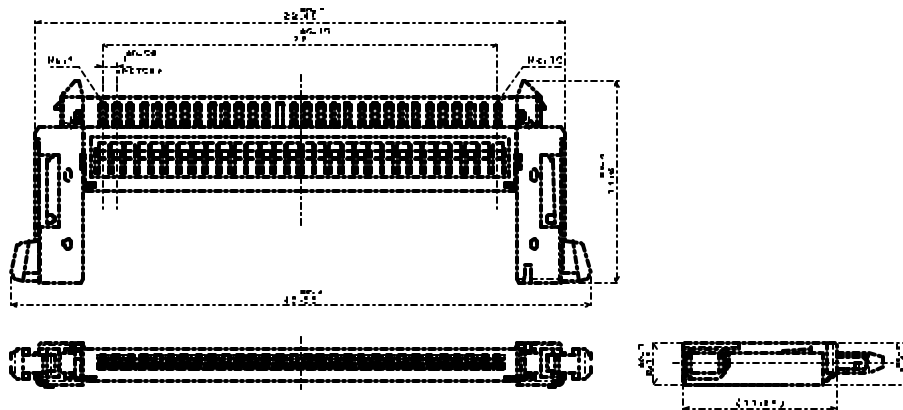


Modification code (None: without lock  
L: with lock)

|             |          |
|-------------|----------|
| Part Number | FI-E30H  |
| SJ Drawing  | SJ100120 |



|             |          |
|-------------|----------|
| Part Number | FI-E30HL |
| SJ Drawing  | SJ100119 |



**Notice:** Products shown in this leaflet are made for the applications listed below. However, if the above-mentioned products are to be used in aerospace devices, marine cable-connection devices, atomic power control systems, medical equipment for life-support systems, or any other specific application requiring extremely high reliability, please contact JAE for further information.

Recommended applications: Computers, Office machines, Measuring devices, Telecommunication devices (Terminals, Mobile devices), AV devices, Household applications, FA devices, etc.

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